



12th Annual Safety Professional Development Conference

**RADM Dick Brooks, USN
Commander, Naval Safety Center**

**Norfolk, Virginia
10 February 2004**

WHERE ARE WE?



FY99-04 USN Mishap Cost:
\$2.46B

~~USN Fatalities: 570~~

FY99-04 USMC Mishap Cost:
\$1.59B

USMC Fatalities: 530



231 Sailors and Marines died in FY03

56* Sailors and Marines died so far in FY04

*operational and non-operational

PMV Non-Operational (34)

Air	Afloat	Shore
4	8	22

Recreation (11)

Air	Afloat	Shore
1	4	6

Indirect Costs

Families

Properties

Futures

Through 4 Feb 04



COST AND DEATHS

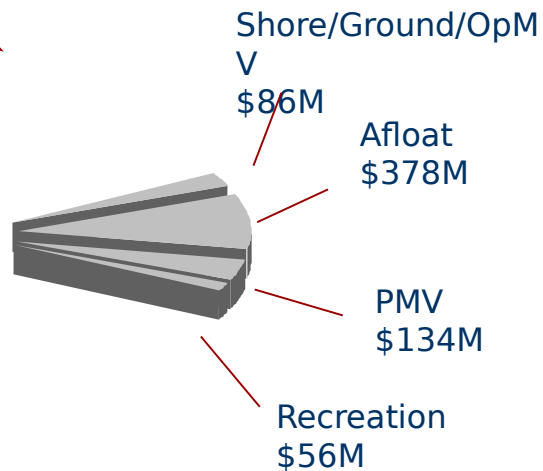


USN/USMC, FY99-

04

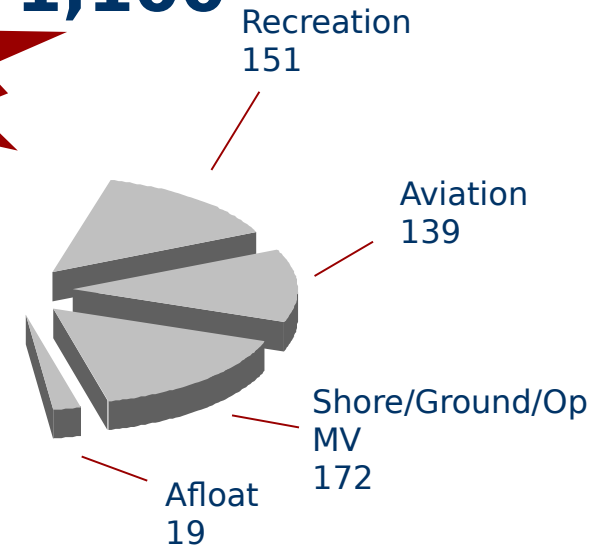
Cost:
\$4.04B

Aviation
\$3.39B



Deaths:
1,100

Traffic
619 Sailors & Marines



SHORE COMMAND FATALITIES

	TOTAL	USN	USMC
PMV	619 (56%)	169 (27%)	214 (35%)
RECREATION	151 (14%)	58 (38%)	30 (20%)

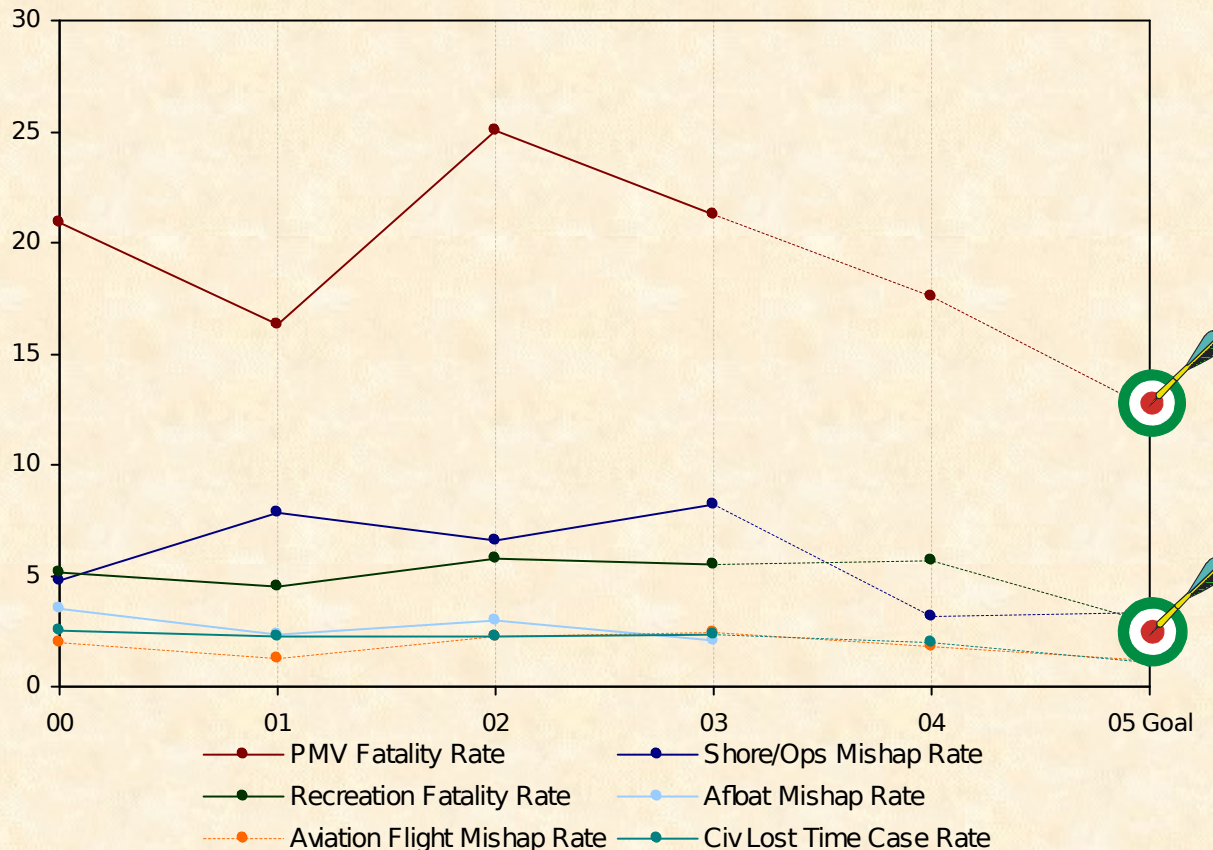
Through 4 Feb 04



PAST MISHAP TRENDS - FUTURE GOALS



USN/USMC, FY00-05



USN/USMC Fatality and Class A Mishap Rates	FY05 GOAL	
PMV Fatality Rate	12.52	↑
Shore/Ops Mishap Rate	3.31	↓
Recreation Fatality Rate	2.86	↑
Afloat Mishap Rate	1.49	↑
Aviation Flight Mishap Rate	1.14	↑
Civilian Lost Time Case Rate	1.0	↑

↓ = rate at or below goal
↑ = rate above goal

RESULTS/RETURN ON SAFETY INVESTMENT

FY90-96 vs. FY97-03 Comparison
Prevented: **49 operational class-A mishaps and 294 fatalities.**
Saved: **\$2.0 billion**

FY94-98 vs. FY99-03 Comparison
Prevented: **-40 class-A mishaps and -48 fatalities**
Saved: **\$587 MILLION**

TAKEAWAY

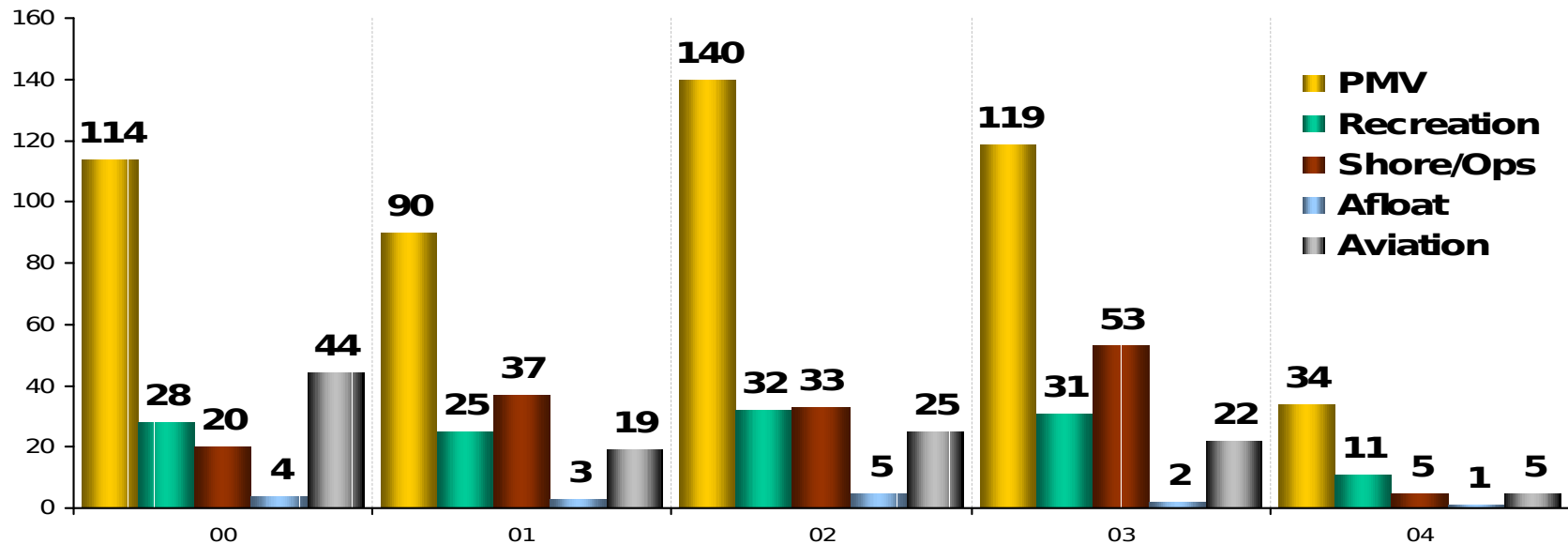
SAFETY = SAVINGS = IMPROVED COMBAT READINESS.
Need current programs but also new ideas and approaches . . . So what's next?



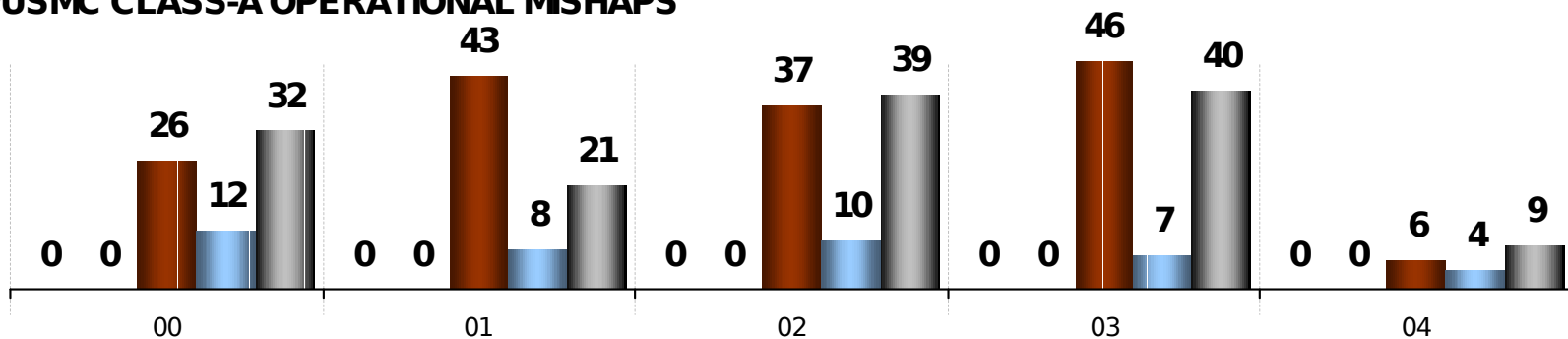
USN/USMC FATALITIES AND MISHAPS



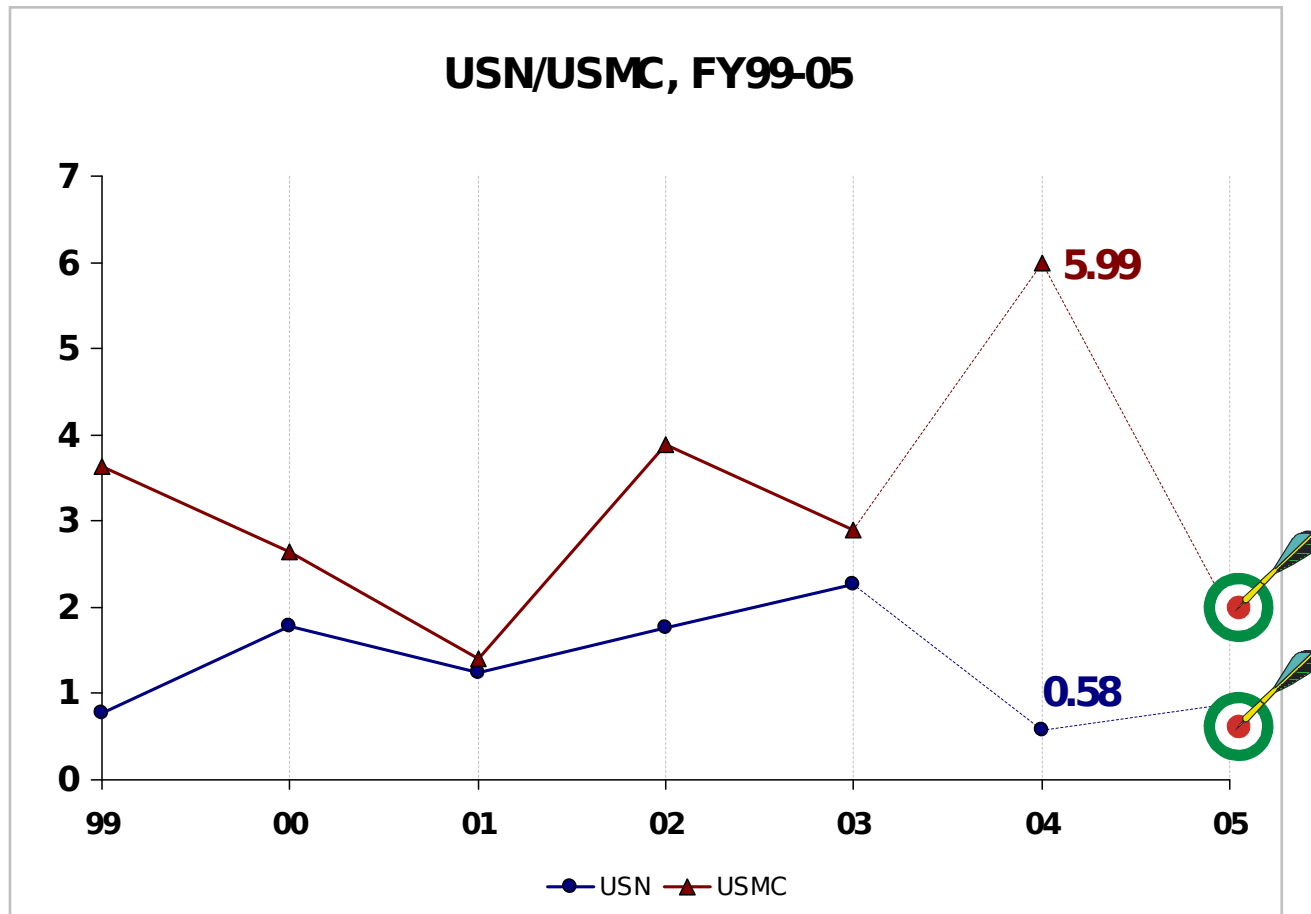
USN/USMC FATALITIES



USN/USMC CLASS-A OPERATIONAL MISHAPS



CLASS A FLIGHT MISHAP RATES



Rates reflect mishaps per 100,000 flight hours.

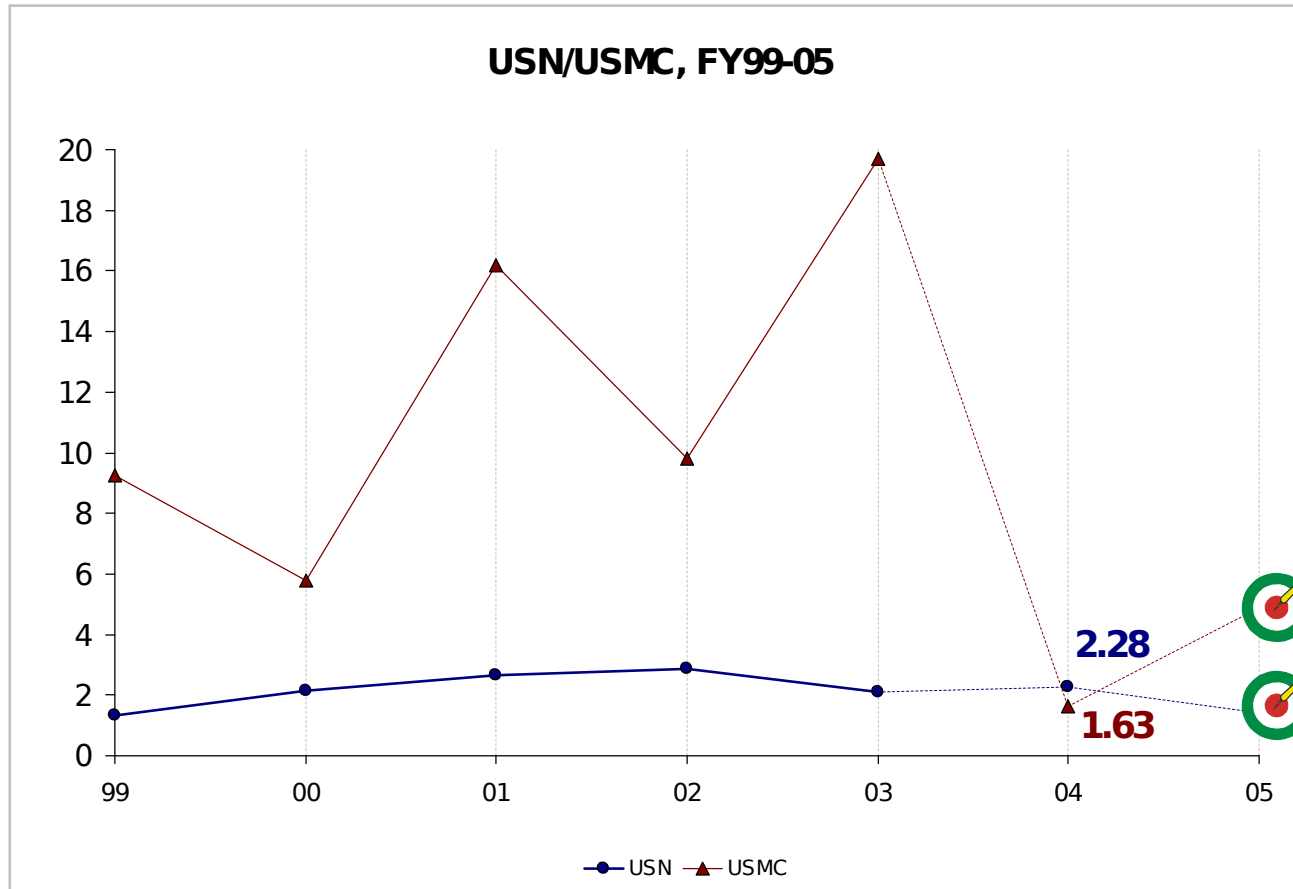
Through 4 Feb 04

**USMC FY05 Goal:
1.94**

**USN FY05 Goal:
0.88**



CLASS A OPERATIONAL ASHORE MISHAP RATES



Rates reflect mishaps per 100,000 personnel per year. Through 4 Feb 04

**USMC FY05 Goal:
4.89**

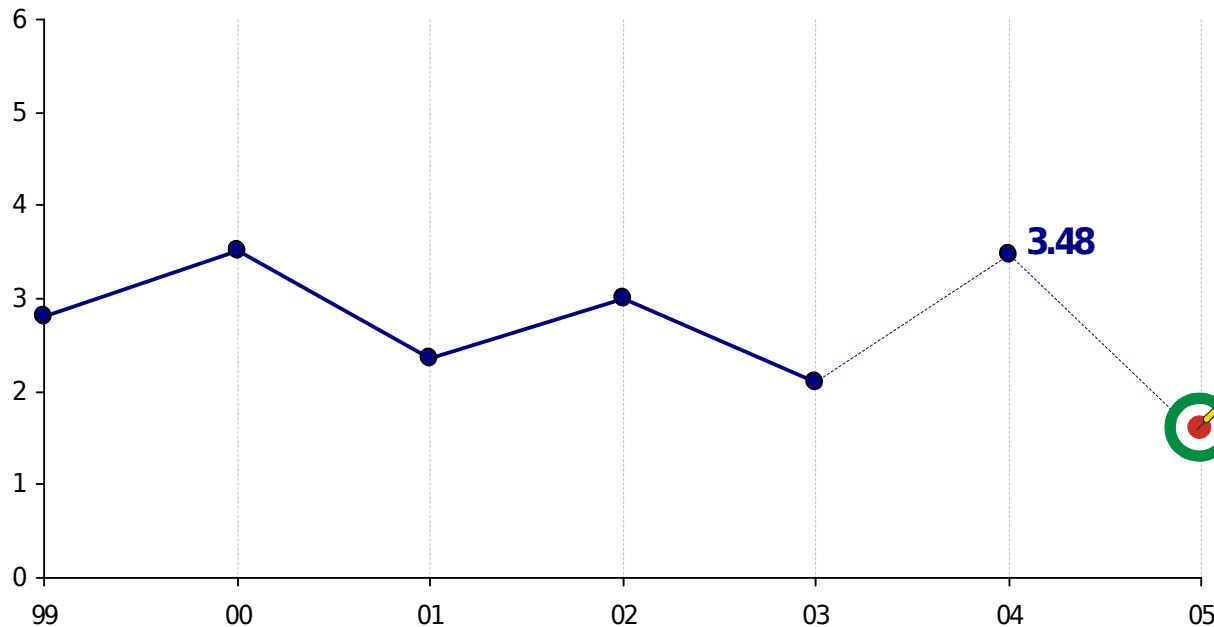
**USN FY05 Goal:
1.43**



NAVY AFLOAT CLASS A MISHAP RATES



USN, FY99-05



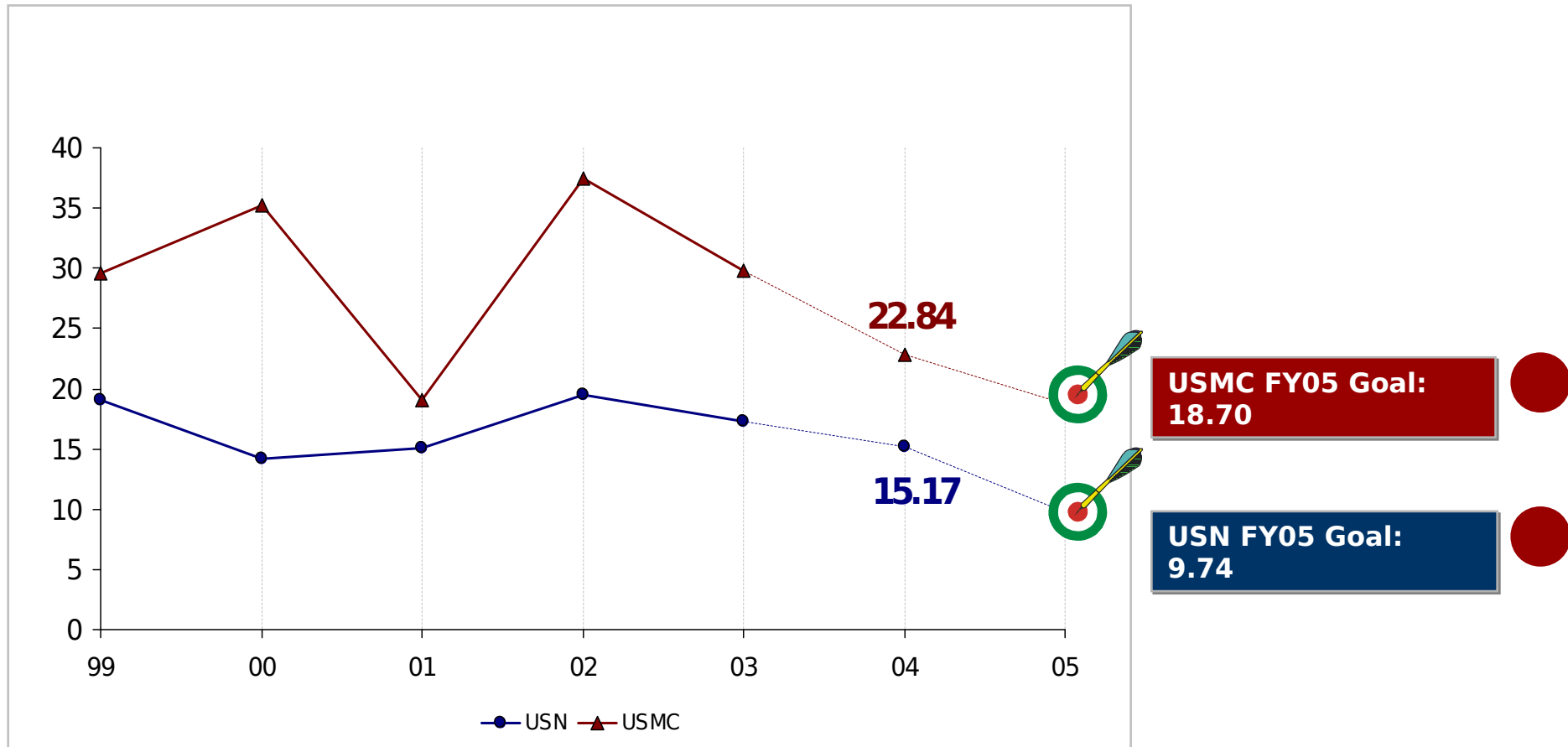
USN FY05 Goal:
1.49

Rates reflect mishaps per 100 ships per year.

Through 4 Feb 04



PMV FATALITY RATES

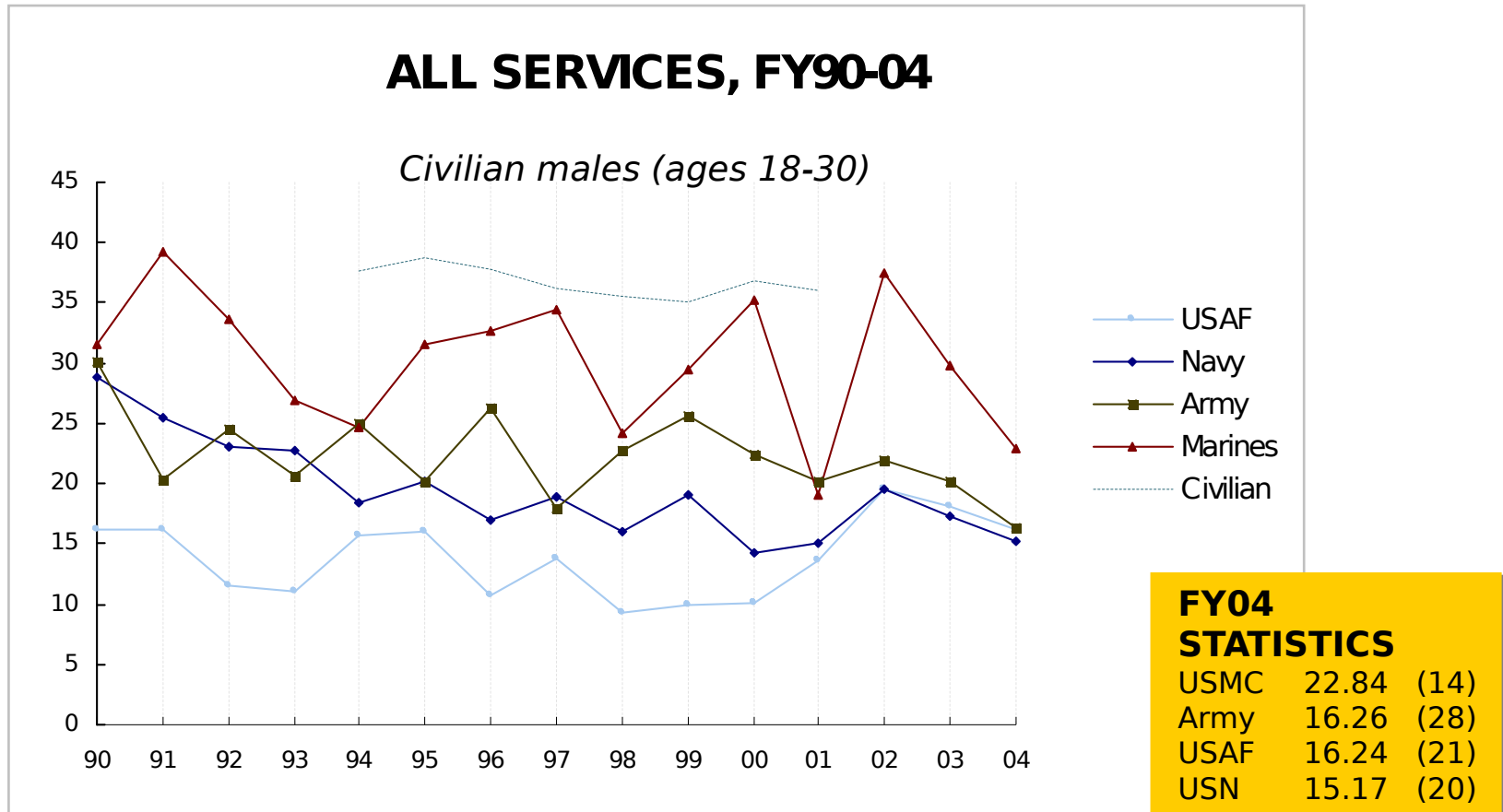


Rates reflect mishaps per 100,000 personnel per year.

Through 4 Feb 04



TRAFFIC DEATH RATES



Rates reflect military fatalities per 100,000 personnel per year. Through 4 Feb 04



FACTORS IN TRAFFIC DEATHS



USN/USMC, FY01-03

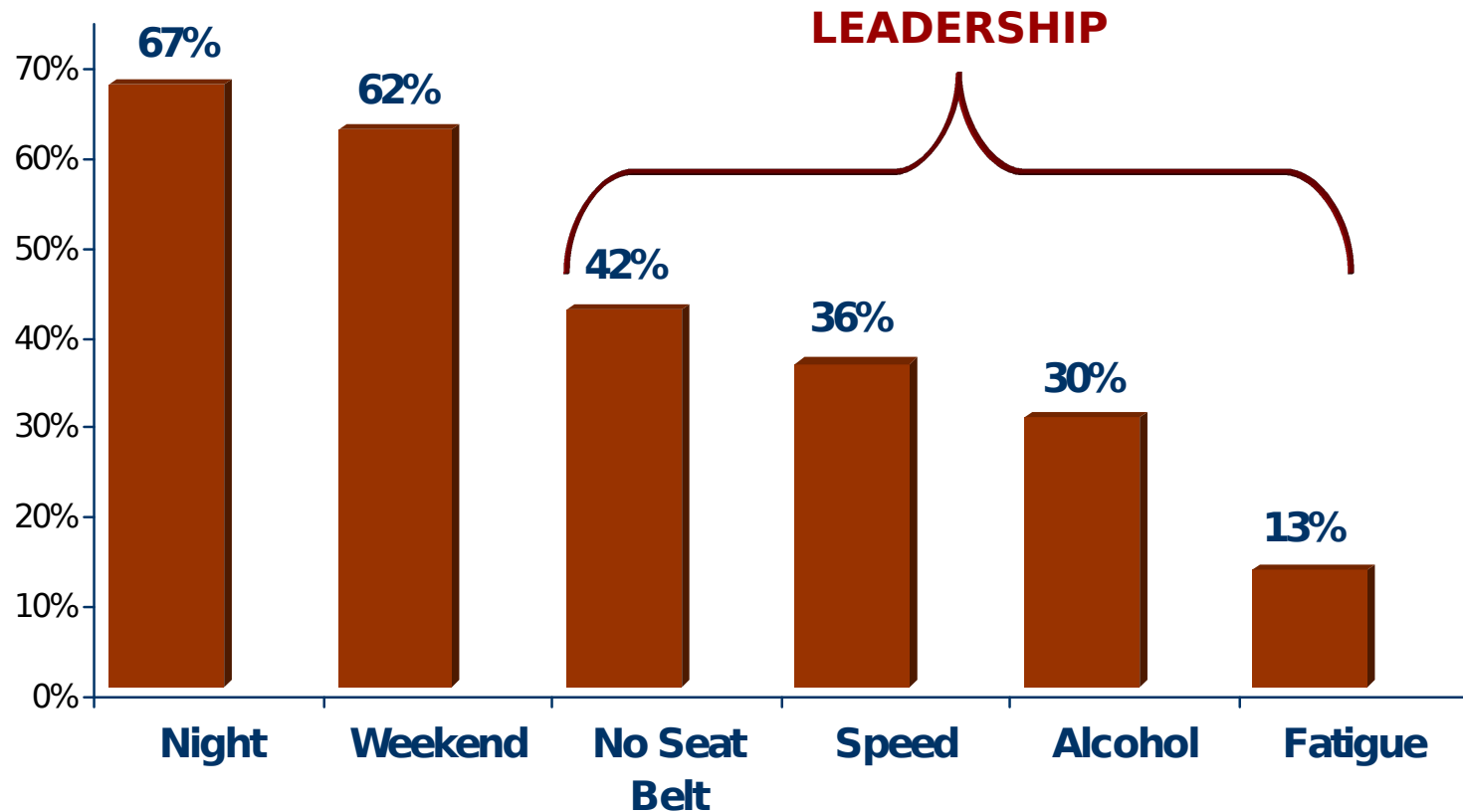
FY01-03 Deaths:
349

FY01: 90

FY02: 140

FY03: 119

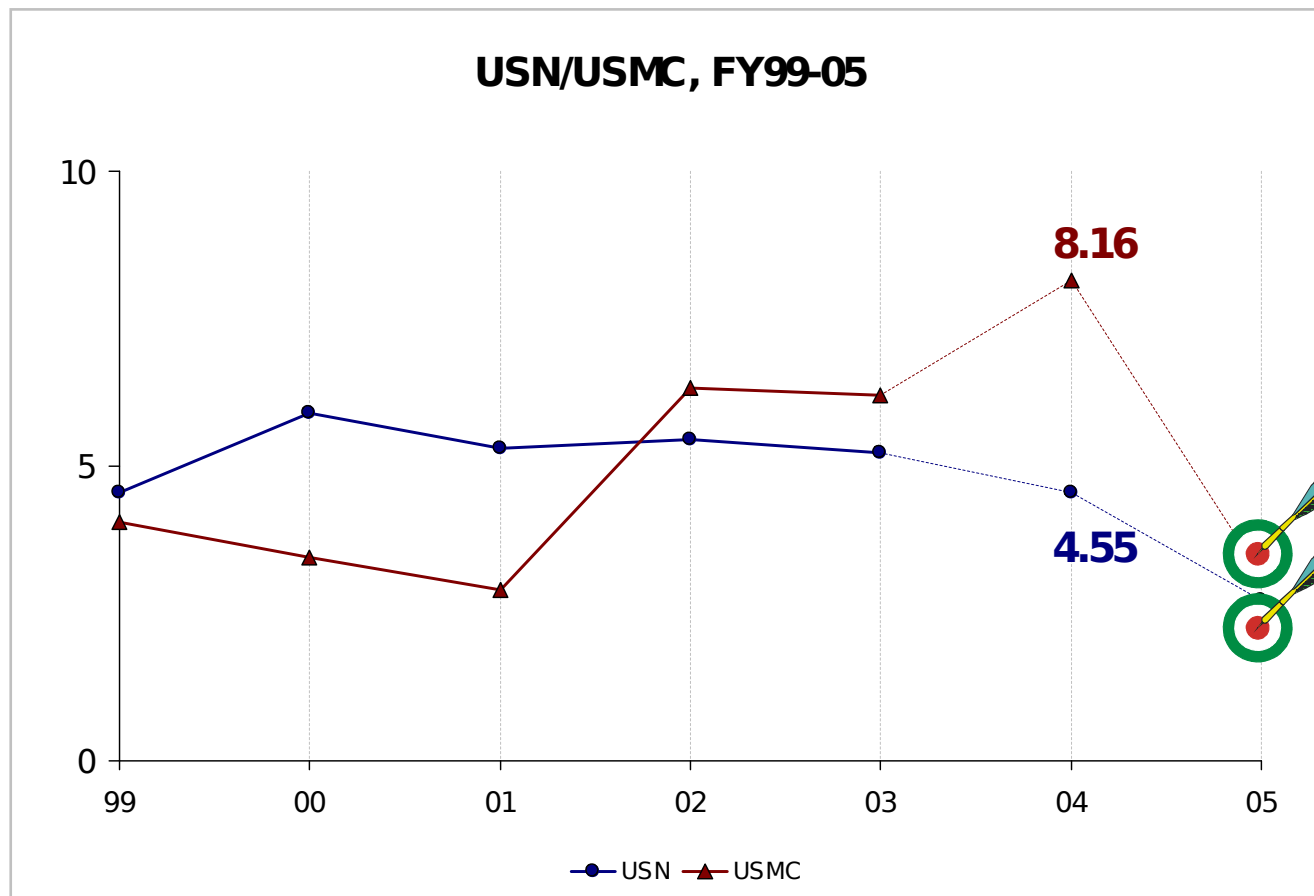
FY04: 34 Through 4 Feb 04



RECREATION FATALITY RATES



USN/USMC, FY99-05



USMC FY05 Goal:
3.16

USN FY05 Goal:
2.72

Rates reflect military fatalities per 100,000 personnel per year through 4 Feb 04



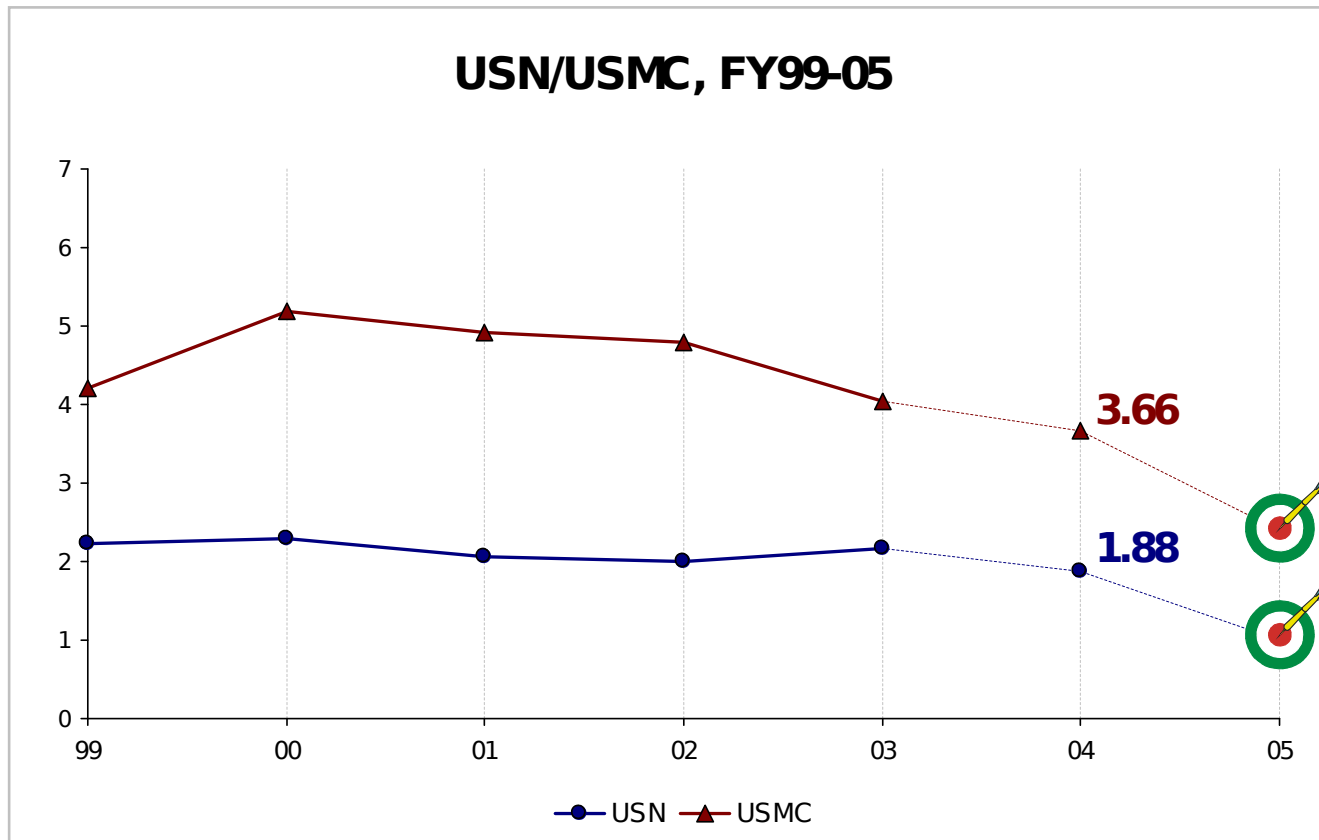
HOW DID OUR SAILORS AND MARINES DIE?



	238 Sailors & Marines Died in FY02				231 Sailors & Marines Died in FY03			
	OVERALL	USN	USMC	RATE	OVERALL	USN	USMC	RATE
PMV	140	75 (32%)	65 (27%)	59%	119	66 (29%)	53 (23%)	52%
Off-Duty Shore/Recreation	32	21 (9%)	11 (5%)	13%	31	20 (9%)	11 (5%)	13%
Aviation	28	14 (6%)	14 (6%)	12%	26	10 (4%)	16 (7%)	11%
Shore/Ground/MV Operational	33	14 (6%)	19 (8%)	14%	53	9 (4%)	44 (19%)	23%
Surface Ships/Sub/Diving	5	5 (2%)	0	2%	2	1 (<1%)	1 (<1%)	1%



FEDERAL CIVILIAN LOST TIME CASE RATES



Civilian lost time case rates = Total number of worker's compensation cases involving lost time injuries per 100 workers per year.

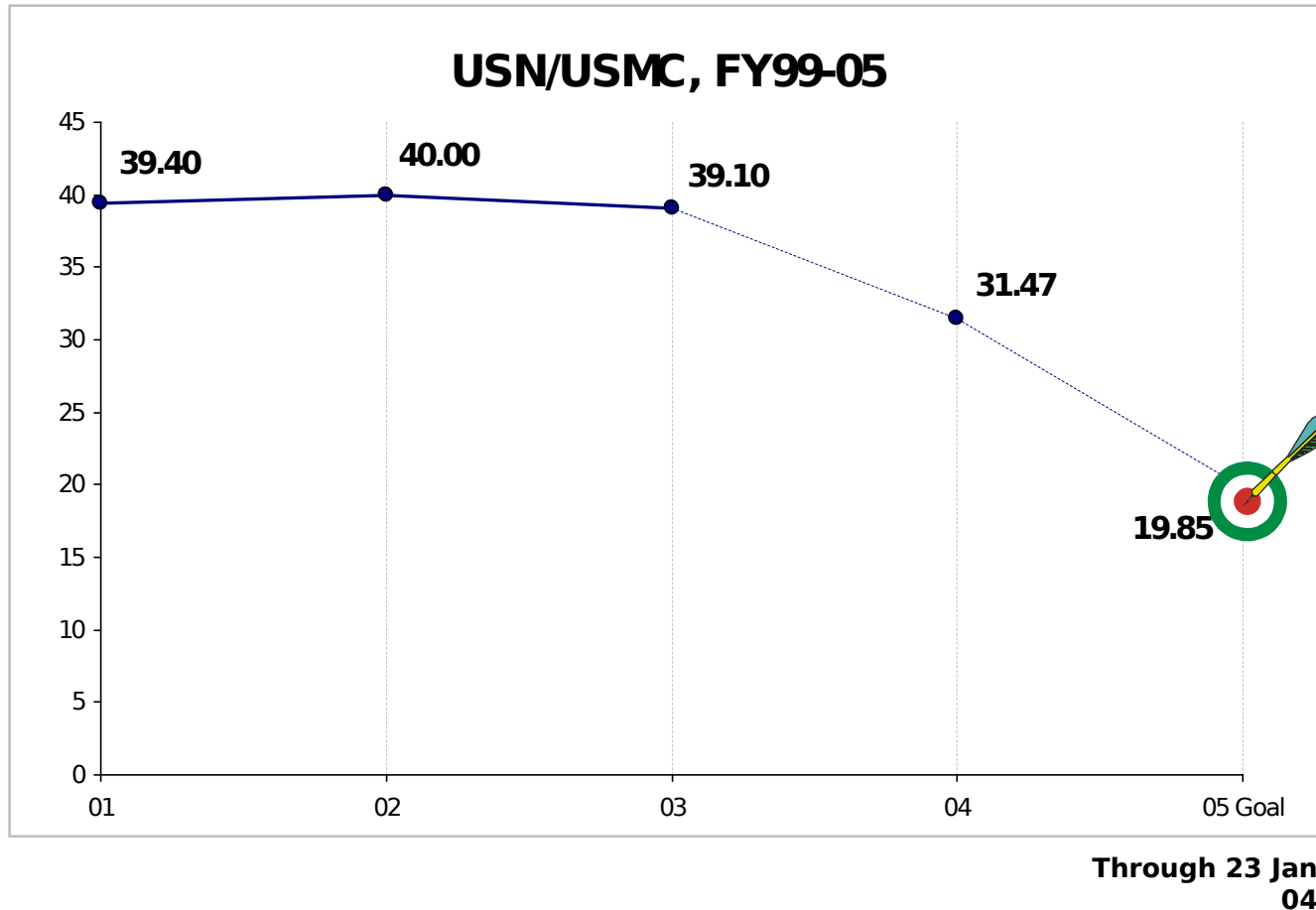
Through 4 Feb 04

**USMC FY05 Goal:
2.39**

**USN FY05 Goal:
1.00**



NAVY/DOD CIVILIAN LOST TIME RATE



IS IT POSSIBLE?



A 50% reduction in mishaps in two years is possible through:

- **Leadership, Technology, Resources**
- **Involvement of every Sailor, Marine and Civilian**
- **A cultural change that no longer “accepts” mishap as a cost of doing business**
- **Addressing human error**



FOCUS ON CORE STRENGTHS



Fleet and Naval Safety Center Focus

LEADERSHIP

*Responsibility
and Accountability*

WEB-ENABLED NAVY

*Online Mishap
Reporting*

EDUCATION/TRAINING/ CULTURE

Promote Safety Culture

COMMUNICATION

*Target High-Risk
Population*

ANALYSIS

*Analysis of Data to
Target Prevention*

TECHNOLOGY

*Clearinghouse for
Safety Technology*



WHAT DO I THINK?



- **“Supervised” vs. “Self-Supervised”**
- **Safety Training – What? Who? Where?**
- **NSC + USMC(SD) by themselves – No Chance!**
- **“Deckplates” + “Boots in the Mud”**

Leadership!



- *Do you know your Sailors, Marines and Civilians?*

- **Cultural Change – There’s time**
- **Human Error vs. Honest Mistake**



CHALLENGE



- **Squadrons, Ships, Subs**  **Strong NSC Connection**
- **Shore Stations**  **NSC Connection?**





Questions ?





Back Up Slides



TOOLS THAT WORK



Command Surveys	Unit surveys, ORM unit training
Site Briefings	Presentations, seminars, workshops, conferences, safety stand downs
Culture Workshops	Command climate assessments
PMV Safety Toolbox	Pre-trip checklist, briefing, counseling
Publications	Safety magazines, newsletters, annual reports, fact sheets
Customer Surveys	Surveys, customer comment cards, hotlines, web feedbacks, frequently asked questions
Marketing/Public Affairs	News conferences, media advisories, meetings with editorial boards, safety campaigns



OUR PARTNERS IN SAFETY



PMV Safety Campaigns, Programs, Training Initiatives

GOVERNMENT AGENCIES

- Department of Transportation
- USMC Safety Division
- National Safety Council
- Department of the Navy



**NATIONAL HIGHWAY TRAFFIC SAFETY
ADMINISTRATION-SPONSORED
PROGRAMS**



**Click It or Ticket/Buckle
Up America Campaign**



You Drink & Drive. You Lose



Safe Ride Program



**NAVY-SPONSORED PROGRAM/NAVY
ALCOHOL & DRUG ABUSE PREVENTION
PROGRAM**



**Turning 21 - A Rite of
Passage**



OUR PARTNERS IN SAFETY



PMV Safety Campaigns, Programs, Training Initiatives

INDUSTRY PARTNERS

- **USAA Educational Foundation/Fatal Vision**
- **The John R. Elliot Foundation**



Fatal Vision Goggles



Hero Campaign



NEW STEPS



- ❖ ***USN/USMC Safety Council***
- ❖ ***Detailed POA&M***
- ❖ ***Establish a West Coast Detachment***
- ❖ ***Cross-Train Survey Teams***
- ❖ ***More Focused Media Tools***



CHALLENGES



- ❖ ***Human Error - “The Honest Mistake”***
- ❖ ***Traffic and Recreational - When our troops are “self-supervised”***
- ❖ ***Cultural Change - Doesn’t happen overnight.***
- ❖ ***Web-Enabled Safety System***



COMMANDER'S ASSESSMENT



- Programs have produced results, BUT Status Quo will not get the job done.
 - *Constant emphasis and “deck-plate/boots-in-mud” leadership.*
 - *Can’t “Buy our way there,” but funding is part of the solution.*
- Leadership, Technology, and Resources all required - Leadership/Involvement at all levels = CRITICAL!
 - *“Supervised” vs. “Self-Supervised”*
 - *Steady state program - not just “post mishap” increased emphasis*
 - *Human error - 85% of all mishaps!*
- Safety training exists today - Who owns it? Who drives it?
 - *Is it embedded in Sailor and Marine’s career?*
- NSC alone won’t make it all happen - Fleet, USMC & NSC partnership.
- Need better business practices and alignment - streamline processes - garner efficiencies - Put funds in the right areas.
 - *More effectively deliver safety msg.*
- Need balanced acquisition approach for platforms and COTS/emergent technologies to reduce mishaps.
- Challenge - Cultural change takes time. Leadership and training key.



WHERE IS MORE ATTENTION NEEDED?



The Largest Challenge: Aviation - Traffic -

	COST		DEATHS								
	OVERALL	AVIATION	OVERALL	PMV				RECREATION			
				Air	Afloat	Shore	Air	Afloat	Shore		
FY99-03	\$ 3.8B	\$ 3.2B	1,044	585	96	128	361	140	31	30	79
FY02	\$732M	\$637M	238	140	30	32	78	32	9	5	18
FY03	\$987M	\$924M	231	119	17	31	71	31	9	6	16
FY04 to 4 Feb.	\$226M	\$206M	56	34	4	8	22	11	1	4	6

INTERVENTION TOOLS

- Investigations
- WESS/MARTRAK
- Surveys
- Media
- Data analysis
- Culture workshops
- Safety awareness campaigns
- Web Sites
- Online culture surveys
- Increased PMV education

SIX KEY AREAS

1. Leadership Accountability
2. Web-Enabled Navy
3. Education/Training/Culture
4. Analysis
5. Communication/Media
6. Technology

Fleet, USMC and NSC Focus

POTENTIAL ADDITIONAL RETURN ON INVESTMENT:

50% reduction will save \$366M and 119 fatalities by end of FY05. (FY02 vs. FY05)

